



Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it contains a valid OMB control number.

Substitute for form 1449/PTO

INFORMATION DISCLOSURE STATEMENT BY APPLICANT

(Use as many sheets as necessary)

Sheet 1 of 4

PTO/SB/08A (08-03)

Approved for use through 07/31/2006. OMB 0651-0031
U.S. Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE

Complete if Known

Application Number	10/600,712
Filing Date	June 23, 2003
First Named Inventor	M. F. DUBE
Art Unit	TBA
Examiner Name	TBA
Attorney Docket Number	14150-00601

Examiner Initials*	Cite No. ¹	U. S. PATENT DOCUMENTS			
		Document Number	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
JAW		US- 2002/0020420	02/21/2002	Xue et al.	Class Sub
		US- 2002/0166563	11/14/2002	Jupe et al.	
		US- 2003/0098033	05/29/2003	Macadam et al.	
		US- 1,726,737	09/03/1929	Harris	
		US- 2,808,057	10/01/1957	M. F. Jaksch	
		US- 2,863,461	12/09/1958	H. W. Frost, Jr.	
		US- 3,066,681	12/04/1962	C. C. Cohn	
		US- 3,270,750	09/06/1966	Campell	
		US- 3,279,476	10/18/1966	Noznick et al.	
		US- 3,288,145	11/29/1966	S. R. Rosenthal	
		US- 3,297,038	01/10/1967	F. Homburger	
		US- 3,334,636	08/08/1967	A. A. Zuber	
		US- 3,339,557	09/05/1967	L. W. Karalus	
		US- 3,339,558	09/05/1967	N. J. Waterbury	
		US- 3,366,121	01/30/1968	M. F. Carty	
		US- 3,390,686	07/02/1968	Irby, Jr., et al.	
		US- 3,420,242	01/07/1969	M. N. Boukair	
		US- 3,428,049	02/18/1969	Leake et al.	
		US- 3,508,558	04/28/1970	B. M. Seyburn	

Examiner Initials*	Cite No. ¹	FOREIGN PATENT DOCUMENTS			
		Foreign Patent Document	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
JAW		WO 86/04488	08/14/1986	Jensen	Class Sub
		WO 02/03819	01/17/2002	Lecoultre	
		WO 03/009711	02/06/2003	Kim	
		WO 03/039276	05/15/2003	Gosebruch	
		DE 1692936	01/13/1972	Jensen	
		DE 22 28 457	10/12/1978	Brooks et al.	

Examiner
Signature

[Signature]

Date
Considered

11-12-04

*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant. ¹ Applicant's unique citation designation number (optional). ² See Kinds Codes of USPTO Patent Documents at www.uspto.gov or MPEP 901.04. ³ Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). ⁴ For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. ⁵ Kind of document by Translation is attached.

This collection of information is required by 37 CFR 1.97 and 1.98. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 2 hours to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

If you need assistance in completing the form, call 1-800-PTO-9199 (1-800-786-9199) and select option 2.



INFORMATION DISCLOSURE STATEMENT BY APPLICANT

(Use as many sheets as necessary)

Sheet	2	of	4
-------	---	----	---

PTO/SB/08A (08-03)

Approved for use through 07/31/2006. OMB 0651-0031
U.S. Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE

Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it contains a valid OMB control number.

Complete if Known

Application Number	10/600.712
--------------------	------------

Filing Date	June 23, 2003
-------------	---------------

First Named Inventor	M. F. DUBE
----------------------	------------

Art Unit	TBA
----------	-----

Examiner Name	TBA
---------------	-----

Attorney Docket Number	14150-00601
------------------------	-------------

U. S. PATENT DOCUMENTS

U. S. PATENT DOCUMENTS					
Examiner Initials*	Cite No. ¹	Document Number	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		Number-Kind Code ² (if known)			
JAN		US- 3,513,859	05/26/1970	M. F. Carty	111
		US- 3,515,146	06/02/1970	R. N. Nealis	111
		US- 3,525,582	08/25/1970	N. J. Waterbury	111
		US- 3,547,130	12/15/1970	Harlow, et al.	111
		US- 3,575,180	04/20/1971	Carty	111
		US- 3,596,665	08/03/1971	Lindgard	111
		US- 3,602,231	08/31/1971	Dock	111
		US- 3,602,235	08/31/1971	Dock	111
		US- 3,625,228	12/07/1971	Dock	111
		US- 3,635,226	01/18/1972	Horsewell, et al.	111
		US- 3,669,128	06/13/1972	Cohen	111
		US- 3,683,936	08/15/1972	O'Neil, Jr.	111
		US- 3,685,521	08/22/1972	Dock	111
		US- 3,797,644	03/19/1974	Shaw	111
		US- 3,916,914	11/04/1975	Brooks et al.	111
		US- 3,972,335	08/03/1976	Tiggelbeck et al.	111
		US- 3,991,773	11/16/1976	Walker	111
		US- 4,003,387	01/18/1977	Goldstein	111
	US- 4,046,063	09/06/1977	Berger	111	

FOREIGN PATENT DOCUMENTS

[illegible]

**Examiner
Signature**

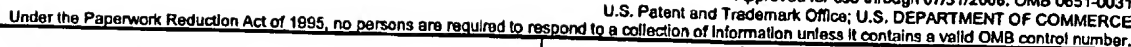
Date Considered

11-12-04

EXAMINER: Initial if reference considered, whether or not citation is in compliance with MPEP 609. Draw line through citation if not in compliance and not considered. Include copy of this form with next communication to applicant. ¹ Applicant's unique citation designation number (optional). ² See Kinds Codes of USPTO Patent Documents at www.uspto.gov or MPEP 901.04. ³ Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). ⁴ For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. ⁵ Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST.16 if possible. ⁶ Applicant is to place a check mark here if English language Translation is attached.

This collection of information is required by 37 CFR 1.97 and 1.98. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 2 hours to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

If you need assistance in completing the form, call 1-800-PTO-9199 (1-800-786-9199) and select option 2.

**Complete if Known**

(Use as many sheets as necessary)

Sheet	3	of	4
-------	---	----	---

Application Number	10/600,712
Filing Date	June 23, 2003
First Named Inventor	M. F. DUBE
Art Unit	TBA
Examiner Name	TBA
Attorney Docket Number	14150-00601

U. S. PATENT DOCUMENTS					
Examiner Initials*	Cite No. ¹	Document Number	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		Number-Kind Code ² (if known)			
JAW		US- 4,046,153	09/06/1977	Kaye	Class
		US- 4,064,791	12/27/1977	Berger	Sub
		US- 4,075,936	02/28/1978	Berger	
		US- 4,082,098	04/04/1978	Owens, Jr.	
		US- 4,126,141	11/21/1978	Grossman	
		US- 4,357,950	11/09/1982	Berger	
		US- 4,508,525	04/02/1985	Berger	
		US- 4,677,995	07/07/1987	Kallianos et al.	
		US- 4,729,391	03/08/1988	Woods et al.	
		US- 4,848,375	07/18/1989	Patron et al.	
		US- 4,862,905	09/05/1989	Green, Jr. et al.	
		US- 4,865,056	09/12/1989	Tamaoki et al.	
		US- 4,881,555	11/21/1989	Bolt et al.	
		US- 4,889,144	12/26/1989	Tateno et al.	
		US- 4,920,990	05/01/1990	Lawrence et al.	
		US- 4,941,486	07/17/1990	Dube et al.	
		US- 5,012,829	05/07/1991	Thesing et al.	
	US- 5,025,814	06/25/1991	Raker		
	US- 5,067,500	11/26/1991	Keritsis		

[illegible]

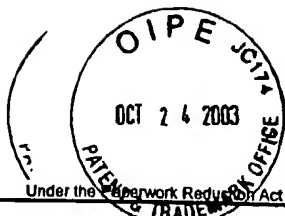
**Examiner
Signature**

**Date
Considered**

<p>EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant. ¹ Applicant's unique citation designation number (optional). ² See Kinds Codes of USPTO Patent Documents at www.uspto.gov or MPEP 901.04. ³ Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). ⁴ For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. ⁵ Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST.16 if possible. ⁶ Applicant is to place a check mark here if English language translation is attached.</p>	<p>Considered</p>	<p>11-12-09</p>
--	-------------------	-----------------

This collection of Information is required by 37 CFR 1.97 and 1.98. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 2 hours to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, P.O. Box 1450, Alexandria, VA 22313-1450. **DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.**

If you need assistance in completing the form, call 1-800-PTO-9199 (1-800-786-9199) and select option 2.



Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it contains a valid OMB control number.

Substitute for form 1449/PTO

INFORMATION DISCLOSURE STATEMENT BY APPLICANT

(Use as many sheets as necessary)

Sheet 4 of 4

Complete if Known

Application Number 10/600,712
Filing Date June 23, 2003
First Named Inventor M. F. DUBE
Art Unit TBA
Examiner Name TBA
Attorney Docket Number 14150-00601

U. S. PATENT DOCUMENTS					
Examiner Initials*	Cite No. ¹	Document Number Number-Kind Code ² (if known)	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
JAW		US- 5,074,320	12/24/1991	Jones, Jr. et al.	Cross-Sub
		US- 5,105,838	04/21/1992	White et al.	
		US- 5,271,419	12/21/1993	Arzonico et al.	
		US- 5,331,981	07/26/1994	Tamaoki et al.	
		US- 5,360,023	11/01/1994	Blakley et al.	
		US- 5,396,909	03/14/1995	Gentry et al.	
		US- 5,718,250	02/17/1998	Banerjee et al.	
		US- 5,724,997	03/10/1998	Smith et al.	
		US- 6,417,156	07/09/2002	Smith et al.	
		US-			
		US-			
		US-			
		US-			
		US-			
		US-			
		US-			
		US-			
		US-			
		US-			

FOREIGN PATENT DOCUMENTS					
Examiner Initials*	Cite No. ¹	Foreign Patent Document Country Code ² Number ³ Kind Code ⁴ (if known)	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages Or Relevant Figures Appear

Examiner Signature	Date Considered
<i>[Signature]</i>	11-12-04

*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant. ¹ Applicant's unique citation designation number (optional). ² See Kinds Codes of USPTO Patent Documents at www.uspto.gov or MPEP 901.04. ³ Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). ⁴ For the appropriate symbols as indicated on the document under WIPO Standard ST.16 if possible. ⁵ Applicant is to place a check mark here if English language translation is attached.

This collection of information is required by 37 CFR 1.97 and 1.98. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 2 hours to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

If you need assistance in completing the form, call 1-800-PTO-9199 (1-800-786-9199) and select option 2.